AMENDMENT TÖ THE CLAIMS

(Currently Amended) A process of for analyzing a specimen 1. of biological material in a biochemical or immunological -assay test for an analyte, said process comprising the steps of:

providing-a specimen-of biological material to be analyzed; depositing said-specimen on a substrater

subjecting said specimen on said substrate to a treatment that develops a color correlated correlating to the amount of an-analyte in the specimen;

spectrophotometrically measuring at least -defined --one-characteristic of said color, said characteristic-being selected from the group consisting of hue angle, or chroma, saturation and lightness of the developed color; and

analyzing the measurement of the hue angle or chroma said at least one color characteristic, to determine the presence or concentration of said analyte in said specimen.

(Currently Amended) The process of to claim 1, wherein said 2. specimen of biological material comprises liquid or semi-solid body secretions collected from a patient to be diagnosed for evidence of abnormalities;

said analyte to be assayed consists essentially of cancer indicating markers in said specimen; and

the measurement of said at least one color characteristic. hue angle or chroma is used to chassify the specimen as normal or abnormal according to the value neasurement of the hue angle or the angle or the line and the l chroma eelor characteristic so obtained.

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- 3. (Previously Amended) The process of claim 2, wherein the specimen is lung mucus, throat mucus, cervical mucus, colorectal mucus or seminal fluid.
- 4. (Previously Amended) The process of claim 2, wherein said specimen is deposited on a generally white substrate, and wherein said process further comprises developing color from said sample by enzyme reaction or Schiff's reaction.
- 5. (Currently Amended) The process of claim 1, wherein said specimen of biological material comprises a colon-contacting semisolid sample collected from a patient to be diagnosed for evidence of abnormalities;

said analyte to be assayed consists essentially of carbohydrate markers indicative of abnormalities;

said step of subjecting said specimen to a treatment comprises depositing the specimen on a generally white substrate, staining the specimen on the substrate with galactose oxidase and color developing the stained specimen with Schiff's reagent; and

the measurement of said <u>hue angle or chroma at least one</u> color characteristic—is used to classify the specimen as normal or abnormal according to the <u>value measurement</u> of the <u>hue angle or chroma color characteristic—so obtained.</u>

6. (Currently Amended) The process of claim 1, wherein said specimen of biological material comprises a colon-contacting semisolid sample collected from a patient to be diagnosed for evidence of abnormalities;

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said analyte to be assayed consists essentially of markers indicative of the presence of abnormalities;

said specimen to a treatment said step of subjecting comprises depositing the specimen on a generally white substrate and developing color from the specimen by enzyme reaction; and

the measurement of said hue angle or chroma at least one color characteristic is used to classify the specimen as normal or abnormal according to the value measurement of the hue angle or chroma color characteristic so obtained.

7. (Cancelled)

- (Currently Amended) The process of claim $\frac{14}{4}$, wherein said 8. substrate is non-cellulosic.
- (Currently Amended) The prodess of claim $\frac{14}{2}$, wherein said substrate is glass fibre.
- (Currently Amended) The process of claim $\frac{1}{2}$, wherein said 10. substrate is substantially pure white.
- (Previously Amended) The process of claim 5, wherein said 11. specimen is predominantly a rectal mucus sample.
- (Previously Amended) A system for analysis of liquid or semi-12. solid body secretion samples sample obtained from a human patient to diagnose for the presence or absence of abnormalities defined þу determination of a said patient characteristic developed in the sample, said color characteristic

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being selected from the group consisting of hue angle, chroma , saturation and lightness, said system comprising:

- with non-cellulosic substrate porous white. pebbledsurface, for receiving and holding the sample during development;
- a source of galactose oxidase, adapted to apply galactose oxidase to the substrate surface for selective enzymatic oxidation of the sample thereon;
- a source of Schiff's reagent, adapted to apply said reagent said oxidized sample on said substrate for development of an analyzable color therein; and

means for presenting the color-developed sample to a portable spectrophotometer being spectrophotometer, said reflectance reporting а defined color of determining and capable characteristic of said samples on said substrate, said color characteristic being selected from the group consisting of hue angle, chroma, saturation and laightness;

a calibration plaque for use with said spectrophotometer; and a computer programmed to analyze the results.

- (Previously Amended) A kit for analysis a of colon-contacting 13. semi-solid sample obtained from a human patient to diagnose for the presence or absence of rectal abnormalities in the patient, said kit comprising;
- a generally white, non-cellulosic substrate for receiving said sample;
 - a source of Schiff's reagent; and
- spectrophotometer said reflectance portable spectrophotometer being capable of determining and reporting at least one defined color characteristic of said sample on said

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substrate, said color characteristic selected from the group consisting of hue angle, chroma, saturation and lightness.

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14. (Previously Amended) The kit of claim 13, wherein the substrate is glass fibre.

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